



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Frank O'Bannon  
Governor

Lori F. Kaplan  
Commissioner

June 27, 2003

100 North Senate Avenue  
P. O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.IN.gov/idem](http://www.IN.gov/idem)

TO: Interested Parties / Applicant

RE: Building Materials Manufacturing Corporation 091-17228-00051  
Office of Air Quality

## Notice of Decision - Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, ISTA Building, 150 W. Market Street, Suite 618, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures

FNPERAM.wpd 8/21/02



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Mr. Fred Bright  
Building Materials Manufacturing Corporation  
500 N. Roeske Avenue  
Michigan City, IN 46360

Re: 091-17228-00051  
Administrative Amendment to:  
FESOP No.: F091-10904-00051

Dear Mr. Bright:

Building Materials Manufacturing Corporation was issued a FESOP on October 6, 1999 for a operation of a roof shingle manufacturing source. A request for the addition of one (1) asphalt blend storage tank was received on May 8, 2003. Pursuant to the provisions of 326 IAC 2-8-10 the permit is hereby administratively amended as follows:

Building Materials Manufacturing Corporation requests the addition of one (1) vertical asphalt blend storage tank, with nominal storage capacity of 100,000 gallons, via an administrative amendment, pursuant to 326 IAC 2-8-10(a)(14), which states an administrative amendment to a FESOP is a revision that... incorporates a modification that adds an emissions unit or units of the same type that are already permitted and that will comply with the same applicable requirements and permit terms and conditions as is in the existing emission unit or units, except if the modification would result in a potential to emit greater than the thresholds in 326 IAC 2-2 or IAC 2-3. Additionally, pursuant to 326 IAC 2-8-10(a)(15), which also states administrative amendment to a FESOP is a revision that... incorporates a modification that is subject to 40 CFR 60.110b... new source performance standard (NSPS)... except for those modifications that would be subject to the provisions of 40 CFR 63, Subpart B Hazardous Air Pollutants.

Upon review of the permit, it has been determined that the proposed storage tank (TK-1120), the same type as the already permitted asphalt flux storage tanks (FST-1 and FST-2), will comply with the same applicable requirements, permit terms, and conditions as is in the existing units, and will not trigger any new applicable requirements, permit terms, and conditions. The source is permitted as a FESOP, therefore, the source PTE will be less than the major source thresholds under 326 IAC 2-2 and 2-3. Additionally, this modification involving an addition of a new storage tank is subject to the requirements of 40 CFR Part 60.110b, Subpart Kb and is not subject to the provisions of 40 CFR 63, Subpart B.

Based on the information provided by Building Materials Manufacturing Corporation, IDEM, OAQ has determined that the potential emissions from this modification are at an exemption level. The total VOC emissions from the new storage tank (TK-1120) are calculated to be 0.86 tons per year based on the Tanks 4.09 emission calculations. Asphalt vapors generated from tank TK-1120 will be controlled by the existing storage tank vent system that directs the collected fumes into an existing thermal oxidizer. The total combined emissions from thermal oxidizer are also calculated to be at exemption level (see Appendix A, page 1 of 1).

00051

Permit Reviewer: AY/EVP

## Federal Rule Applicability

- (a) The storage tank identified as TK-1120 (to be constructed in 2003) is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110, Subpart Kb) where construction, reconstruction, or modification commenced after July 23, 1984, and it has a storage capacity greater than 40 cubic meters. Tank TK-1120 has a storage capacity of greater than 151 cubic meters (m<sup>3</sup>) (39,889 gallons) and store asphalt, with a maximum true vapor pressure less than 3.5 kPa, therefore, pursuant to 40 CFR 60.110b(c), this tank is exempt from all other provisions of this Subpart except 60.116b, paragraphs (a) and (b) which requires that permanent records be maintained showing dimension and an analysis of the capacity of tank. Note: Pursuant to 40 CFR 60.110b(c), this tank is only subject to the requirements of paragraphs (a) and (b) of 60.116b (Monitoring of Operations), and is exempt from all other provisions of this subpart including paragraph (d) of 60.116b (Monitoring of Operations).
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 20 and 40 CFR Part 63) applicable to this source as a result of this modification.

## State Rule Applicability

### 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

Pursuant to 326 IAC 8-4-1 (Applicability) and 326 IAC 8-4-3 (Petroleum Liquid Storage Facilities), all petroleum liquid storage vessels with capacities greater than one hundred fifty thousand (150,000) liters (39,000 gallons) containing VOC whose true vapor pressure is greater than 10.5 kPa (1.52 psi) shall comply with the requirements for external fixed and floating roof tanks and the specified record keeping and reporting requirements. The new asphalt blend storage tank, identified as TK-1120 with maximum storage capacity of 100,000 gallons of asphalt is not subject to the requirements of 326 IAC 8-4-3 since the material stored in this tank has a vapor pressure less than 10.5 kPa (1.52 psi).

### 326 IAC 8-1-6 (New Facilities, General Reduction Requirements)

Rule 8-1-6 applies to new facilities (as of January 1, 1980) which have potential emissions of 25 tons or more per year of volatile organic compounds (VOC). The potential VOC emissions from the tank TK-1120 are below the twenty-five (25) tons per year applicability threshold and is therefore, not subject to the requirements of 326 IAC 8-1-6.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions  
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a

manner consistent with procedures established pursuant to 326 IAC 2.

1. The changes to Condition A.2 are as follows:

**A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]**

This stationary source consists of the following emission units and pollution control devices:

- (d) Two (2) bulk asphalt flux storage tanks, known as FST-1 and FST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 250,000 gallons of asphalt, each.
- (e) **One (1) asphalt blend storage tank, known as TK-1120, to be installed in 2003, vented to one (1) existing natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 100,000 gallons of asphalt.**
- (ef) Two (2) blown coating storage tanks, known as CST-1 and CST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 42,000 gallons of coatings, each.

All remaining emission units have been re-labeled accordingly.

2. The changes to Section D.1 are as follows:

**SECTION D.1 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-8-4(10)]:**

- (d) Two (2) bulk asphalt flux storage tanks, known as FST-1 and FST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 250,000 gallons of asphalt, each.
- (e) **One (1) asphalt blend storage tank, known as TK-1120, to be installed in 2003, vented to one (1) existing natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 100,000 gallons of asphalt.**
- (ef) Two (2) blown coating storage tanks, known as CST-1 and CST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 42,000 gallons of coatings, each.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**D.1.10 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.116b]**

The two (2) 42,000 gallon blown coating storage tanks, ~~and the two (2) 250,000 gallon bulk asphalt flux storage tanks,~~ **and one (1) 100,000 gallon asphalt blend storage tank** shall comply with the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.116b, Subpart Kb). 40 CFR Part 60.116b paragraphs (a) and (b) require the Permittee to maintain accessible records showing the dimension of each storage vessel and an analysis showing the capacity of the storage vessels.

Recordkeeping requirements applicable to storage tank (TK-1120) pursuant to 40 CFR Part 60.116b are already included in Condition D.1.20(f) for previously permitted storage tanks, therefore, it is not required to list the conditions.

All other conditions of the permit shall remain unchanged and in effect. Please find attached revised entire Part 70

00051

Permit Reviewer: AY/EVP

permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter please contact Adeel Yousuf, at 973-575-2555 (ext. 3252) or 1-800-451-6027 press 0 and ask for extension 3-6878.

Sincerely,

Original signed by Paul Dubenetzky

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments  
AY/EVP

cc: File - Laporte County  
Laporte County Health Department  
Air Compliance Section Inspector - Rick Massoels  
IDEM Northwest Regional Office  
Compliance Data Section - Karen Nowak  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Michele Boner



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## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR MANAGEMENT

**Building Materials Manufacturing Corporation  
505 North Roeske Avenue  
Michigan City, Indiana 46360**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 091-10904-00051	
Original Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: October 6, 1999
First Minor Permit Revision 091-11679-00051, issued February 7, 2000 First Reopening 091-13073-00051, issued September 24, 2001	
First Administrative Amendment 091-17228	Pages Affected: 5, 27, and 30
Issued by: Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: June 27, 2003

**SECTION A SOURCE SUMMARY**

- A.1 General Information [326 IAC 2-8-3(b)]
- A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]
- A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]
- A.4 FESOP Applicability [326 IAC 2-8-2]
- A.5 Prior Permit Conditions

**SECTION B GENERAL CONDITIONS**

- B.1 Permit No Defense [IC 13]
- B.2 Definitions [326 IAC 2-8-1]
- B.3 Permit Term [326 IAC 2-8-4(2)]
- B.4 Enforceability [326 IAC 2-8-6]
- B.5 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3 (h)]
- B.6 Severability [326 IAC 2-8-4(4)]
- B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]
- B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]
- B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]
- B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]
- B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]
- B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]
- B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]
- B.14 Emergency Provisions [326 IAC 2-8-12]
- B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]
- B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
- B.17 Permit Renewal [326 IAC 2-8-3(h)]
- B.18 Permit Amendment or Modification [326 IAC 2-8-10][326 IAC 2-8-11.1]
- B.19 Operational Flexibility [326 IAC 2-8-15]
- B.20 Construction Permit Requirement [326 IAC 2]
- B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)]
- B.22 Transfer of Ownership or Operation [326 IAC 2-8-10]
- B.23 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]
- B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)]

**SECTION C SOURCE OPERATION CONDITIONS**

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- C.1 Overall Source Limit [326 IAC 2-8]
- C.2 Opacity [326 IAC 5-1]
- C.3 Open Burning [326 IAC 4-1][IC 13-17-9]
- C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]
- C.5 Fugitive Dust Emissions [326 IAC 6-4]
- C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]
- C.7 Stack Height [326 IAC 1-7]
- C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

**Testing Requirements [326 IAC 2-8-4(3)]**

- C.9 Performance Testing [326 IAC 3-6]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]
- C.11 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]
- C.12 Monitoring Methods [326 IAC 3]
- C.13 Pressure Gauge Specifications

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]**

- C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]
- C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4]
- C.17 Actions Related to Noncompliance Demonstrated by a Stack Test

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

- C.18 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]
- C.19 Monitoring Data Availability
- C.20 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]
- C.21 General Reporting Requirements [326 IAC 2-8-4(3)(C)]

**Stratospheric Ozone Protection**

- C.22 Compliance with 40 CFR 82 and 326 IAC 22-1

**SECTION D.1 FACILITY OPERATION CONDITIONS - Process Operations**

**General Construction Conditions**

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.1.4 General Provisions Relating to NSPS [326 IAC 12] [40 CFR 60, Subpart A]
- D.1.5 PM<sub>10</sub> [326 IAC 2-8-4]
- D.1.6 Particulate Matter [40 CFR Part 60.470, Subpart UU] [326 IAC 12]
- D.1.7 Particulate Matter (PM) [326 IAC 6-3-2(c)]
- D.1.8 Best Available Control Technology (BACT) [326 IAC 8-1-6]
- D.1.9 Thermal Oxidizer Operations
- D.1.10 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.116b]
- D.1.11 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.1.12 Testing Requirements [NSPS Subpart UU] [326 IAC 12]
- D.1.13 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.1.14 Particulate Matter (PM)
- D.1.15 Visible Emissions Notations
- D.1.16 Parametric Monitoring [NSPS Subpart UU]
- D.1.17 Baghouse Inspections
- D.1.18 Broken or Failed Bag Detection
- D.1.19 Thermal Oxidizer Monitoring (NSPS Subpart UU)

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.1.20 Record Keeping Requirements



## **SECTION D.2 FACILITY OPERATION CONDITIONS - Process Combustion**

### **General Construction Conditions**

#### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

D.2.4 Particulate Matter [326 IAC 6-2-4]

#### **Compliance Determination Requirements**

D.2.5 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

#### **Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

D.2.6 Record Keeping Requirements

### **Certification Form**

### **Emergency/Deviation Form**

### **Natural Gas Fired Boiler Certification**

### **Semi-Annual Compliance Monitoring Report Form**

## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

---

The Permittee owns and operates a roof shingle manufacturing source.

Authorized individual: Fred Bright  
Source Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
Mailing Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
Phone Number: 973 - 628 - 3507  
SIC Code: 2952  
County Location: LaPorte  
County Status: Attainment for all criteria pollutants  
Source Status: Federally Enforceable State Operating Permit (FESOP)  
Minor Source, under PSD Rules;  
Minor Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) flux asphalt heater, known as FAH-1, using waste heat from the thermal oxidizer, known as TO-1, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 60,197 pounds of asphalt per hour.
- (b) One (1) flux asphalt heater backup, known as FAH-2, rated at 10.5 million British thermal units per hour, exhausted through Stack #S2.
- (c) One (1) asphalt blow still, known as BS-1, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, to be installed in 1999, capacity: 60,197 pounds of blown asphalt per hour.
- (d) Two (2) bulk asphalt flux storage tanks, known as FST-1 and FST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 250,000 gallons of asphalt, each.
- (e) One (1) asphalt blend storage tank, known as TK-1120, to be installed in 2003, vented to one (1) existing natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 100,000 gallons of asphalt.

- (f) Two (2) blown coating storage tanks, known as CST-1 and CST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 42,000 gallons of coatings, each.
- (g) One (1) shingle machine, known as SM-1, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1 and also equipped with a baghouse for particulate matter control, known as V10, capacity: 320,729 pounds of asphalt shingles per hour.
- (h) Six (6) limestone filler silos, known as LFS-1 through LFS-6, to be installed in 1999, each equipped with a baghouse for particulate matter control, exhausted through V1 through V6, storage capacity: 300 tons of limestone each, throughput: 19,337.5 pounds of limestone per hour each.
- (i) One (1) cold filler hopper, known as CFH-1, to be installed in 1999, equipped with a baghouse for particulate matter control, exhausted through V7, storage capacity: 70 tons of limestone, throughput: 116,025 pounds of limestone per hour.
- (j) Two (2) sand silos, known as SS-1 and SS-2, to be installed in 1999, each equipped with a baghouse for particulate matter control, exhausted through V8 and V9, capacity: 125 tons of sand each, throughput 10,319.5 pounds of sand per hour each.
- (k) One (1) natural gas-fired boiler, known as BO-1, to be installed by December 1999, rated at 12.6 million British thermal units per hour, exhausted through Stack #S6.
- (l) One (1) natural gas fired boiler backup, known as BO-2, rated at 10.5 million British thermal units per hour, exhausted through Stack #S2.
- (m) One (1) natural gas-fired coating heater, known as CH-1, to be installed in 1999, rated at 7.5 million British thermal units per hour, exhausted through Stack #S3, process capacity: 250 gallons of coating asphalt per minute (15,000 gallons per hour).
- (n) One (1) natural gas-fired hot oil heater, known as HO-1, to be installed in 1999, rated at 6.0 million British thermal units per hour, exhausted through Stack #S5.
- (o) One (1) natural gas fired hot oil heater backup, known as HO-2, rated at 10.5 million British thermal units per hour, exhausted through Stack #S2.

**A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]**

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Combustion source flame safety purging on startup.
- (b) Application of oils, greases lubricants or other nonvolatile materials applied as temporary protective coatings.

- (c) Closed loop heating and cooling systems.
- (d) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 percent by volume.
- (e) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (f) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (g) Heat exchanger cleaning and repair.
- (h) Covered conveyors for limestone conveying of less than or equal to 7,200 tons per day for sources other than mineral processing plants constructed after August 31, 1983;
- (i) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (j) Stationary fire pumps.
- (k) Purge double block and bleed valves.
- (l) Filter or coalescer media changeout.
- (m) One (1) natural gas-fired space heater, known as H-1, rated at 4.3 million British thermal units per hour .
- (b) One (1) natural gas-fired space heater, known as H-2, rated at 4.6 million British thermal units per hour.
- (c) Two (2) natural gas-fired space heaters, known as H-3 and H-4, rated at 3.1 million British thermal units per hour each.
- (d) One (1) natural gas fired coating asphalt heater, rated at 4.5 million British thermal units per hour.

#### A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

#### A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, when applicable shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable

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Michigan City, Indiana  
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requirement until the permit is reissued.

## SECTION B

## GENERAL CONDITIONS

### B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

### B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

### B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

### B.4 Enforceability [326 IAC 2-8-6]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.

### B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

### B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

### B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, may request in writing to determine whether cause exists for modifying, revoking

and reissuing, or terminating this permit, or to determine compliance with this permit.

- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

**B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]**

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IDEM, OAM may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

**B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]**

---

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
  - (1) Enforcement action;
  - (2) Permit termination, revocation and reissuance, or modification; and
  - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]**

---

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted under this permit shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

**B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]**

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- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, IDEM, OAM, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]**

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Management



100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. IDEM, OAM may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

**B.14 Emergency Provisions [326 IAC 2-8-12]**

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAM, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due

to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
  - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
    - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
    - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]**

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive

measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

(c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination**

[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, determines any of the following:

- (1) That this permit contains a material mistake.
- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which

cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

**B.17 Permit Renewal [326 IAC 2-8-3(h)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (2) If IDEM, OAM, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, any additional information identified as needed to process the application.

**B.18 Permit Amendment or Modification [326 IAC 2-8-10] [326 IAC 2-8-11.1]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1

whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) only if a certification is required by the terms of the applicable rule.

- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

**B.19 Operational Flexibility [326 IAC 2-8-15]**

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- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-1.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]  
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAM or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.20 Construction Permit Requirement [326 IAC 2]**

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2.

**B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)]**

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-8-5(a)(4)]

**B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]**

---

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

**B.23 Annual Fee Payment [326 IAC 2-8-4(6)][326 IAC 2-8-16]**

---

(a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

**B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)]**

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The requirements to obtain a permit revision under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3 if such modifications occur during the term of this permit.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.



**C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]**

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. The provisions of 326 IAC 9-1-2 are not federally enforceable.

**C.5 Fugitive Dust Emissions [326 IAC 6-4]**

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

**C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]**

Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

**C.7 Stack Height [326 IAC 1-7]**

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

**C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]**

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

#### **Testing Requirements [326 IAC 2-8-4(3)]**

##### **C.9 Performance Testing [326 IAC 3-6]**

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM, within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

#### **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

##### **C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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Compliance with applicable requirements shall be documented as required by this permit. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the

Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**C.11 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]**

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- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

**C.12 Monitoring Methods [326 IAC 3]**

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Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

**C.13 Pressure Gauge Specifications**

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Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Management

100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within 180 days from the date on which this source commences operation).

The ERP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) If the ERP is disapproved by IDEM, OAM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.15 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]**

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If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
  - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
  - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
  - (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4][326 IAC 2-8-5] [326 IAC 1-6]**

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- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
  - (1) This condition;

- (2) The Compliance Determination Requirements in Section D of this permit;
- (3) The Compliance Monitoring Requirements in Section D of this permit;
- (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
- (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
  - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
  - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
  - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
  - (3) An automatic measurement was taken when the process was not operating; or
  - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall

prevail.

**C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

**C.18 Monitoring Data Availability**

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

**C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]**

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- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
  - (1) The date, place, and time of sampling or measurements;
  - (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;
  - (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
  - (1) Copies of all reports required by this permit;
  - (2) All original strip chart recordings for continuous monitoring instrumentation;
  - (3) All calibration and maintenance records;
  - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

**C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)]**

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- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of

this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Management  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

### **Stratospheric Ozone Protection**

#### **C.21 Compliance with 40 CFR 82 and 326 IAC 22-1**

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.



## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) flux asphalt heater, known as FAH-1, using waste heat from the thermal oxidizer, known as TO-1, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 60,197 pounds of asphalt per hour.
- (b) One (1) flux asphalt heater backup, known as FAH-2, rated at 10.5 million British thermal units per hour, exhausted through Stack #S2.
- (c) One (1) asphalt blow still, known as BS-1, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, to be installed in 1999, capacity: 60,197 pounds of blown asphalt per hour.
- (d) Two (2) bulk asphalt flux storage tanks, known as FST-1 and FST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 250,000 gallons of asphalt, each.
- (e) One (1) asphalt blend storage tank, known as TK-1120, to be installed in 2003, vented to one (1) existing natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 100,000 gallons of asphalt.
- (f) Two (2) blown coating storage tanks, known as CST-1 and CST-2, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1, capacity: 42,000 gallons of coatings, each.
- (g) One (1) shingle machine, known as SM-1, to be installed in 1999, equipped with one (1) natural gas-fired, low NO<sub>x</sub> burner, thermal oxidizer, known as TO-1, rated at 30.0 million British thermal units per hour, exhausted through Stack #S1 and also equipped with a baghouse for particulate matter control, known as V10, capacity: 320,729 pounds of asphalt shingles per hour.
- (h) Six (6) limestone filler silos, known as LFS-1 through LFS-6, to be installed in 1999, each equipped with a baghouse for particulate matter control, exhausted through V1 through V6, storage capacity: 300 tons of limestone each, throughput: 19,337.5 pounds of limestone per hour each.
- (i) One (1) cold filler hopper, known as CFH-1, to be installed in 1999, equipped with a baghouse for particulate matter control, exhausted through V7, storage capacity: 70 tons of limestone, throughput: 116,025 pounds of limestone per hour.
- (j) Two (2) sand silos, known as SS-1 and SS-2, to be installed in 1999, each equipped with a baghouse for particulate matter control, exhausted through V8 and V9, capacity: 125 tons of sand each, throughput 10,319.5 pounds of sand per hour each.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

## Construction Conditions

### General Construction Conditions

D.1.1 This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

### Effective Date of the Permit

D.1.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.1.3 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

### Operation Conditions

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

##### D.1.4 General Provisions Relating to NSPS [326 IAC 12] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12 apply to the facilities described in this section except when otherwise specified in 40 CFR 60 Subpart UU.

##### D.1.5 PM<sub>10</sub> [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM<sub>10</sub> emissions shall not exceed the values stated in the following table. The combined PM<sub>10</sub> emissions from the listed facilities shall not exceed a total of 22.1 pounds per hour (96.8 tons per year). Compliance with these PM<sub>10</sub> limits will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

Operation	PM <sub>10</sub> Emission Rate (pounds per hour)
Thermal Oxidizer (Stack #S1)	3.17
Each Limestone Filler Silo (V1 - V6)	1.48 each
Cold Filler Hopper (V7)	3.64
Each Sand Silo (V8 & V9)	0.973 each
Shingle Machine (V10)	4.44

##### D.1.6 Particulate Matter [40 CFR Part 60.470, Subpart UU] [326 IAC 12]

Pursuant to NSPS Subpart UU:

- (a) the PM emissions from the shingle production line shall not exceed 0.04 kilograms per megagram of asphalt shingle produced and the opacity shall be limited to twenty percent (20%).
- (b) the PM emissions from the blow still shall not exceed:
  - (1) 0.67 kilograms per megagram of asphalt charged to the still when operating with a catalyst, or

- (2) 0.60 kilograms per megagram of asphalt charged to the still when operating without a catalyst.

#### D.1.7 Particulate Matter (PM) [326 IAC 6-3-2(c)]

The allowable PM emission rate from the asphalt shingle manufacturing facilities shall not exceed the pounds per hour limits specified below when operating at the specified process weight rates in pounds per hour.

The pounds per hour limitations were calculated with the following equations:

- (a) Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

and

- (b) Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Operation	Process Weight Rate (tons per hour)	Allowable PM Emission Rate (pounds per hour)
Blow Still (Stack #S1)	30.1	40.0
Each Limestone Filler Silo (V1 - V6)	9.67	18.75
Cold Filler Hopper (V7)	58.0	46.0
Each Sand Silo (V8 & V9)	5.16	12.3
Shingle Machine (V10)	160.4	56.1
Asphalt Coating Process (Stack #S1)	30.1	40.0

- (c) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), the total allowable PM emission rate from these facilities shall not exceed 56.4 pounds per hour. This PM limit is equivalent to 247 tons per year which makes 326 IAC 2-2 not applicable.

#### D.1.8 Best Available Control Technology (BACT) [326 IAC 8-1-6]

Pursuant to 326 IAC 8-1-6 (New facilities: General reduction requirements):

- (a) BACT has been determined to be the thermal oxidizer, and
- (b) The volatile organic compound (VOC) emissions shall not exceed 98.9 tons per twelve (12) consecutive month period for all facilities equipped with the thermal oxidizer to be calculated by the following equation:

$$\text{VOC emissions} = \text{Input VOC} \times (1 - \text{overall control efficiency of the thermal oxidizer}).$$

#### **D.1.9 Thermal Oxidizer Operation**

The thermal oxidizer shall operate at all times that any of the facilities listed in Section D.1, except the silos and cold filler hopper (items f through h) are operated. When operating, the thermal oxidizer shall maintain a minimum operating temperature of 1,200 degrees Fahrenheit or a temperature, fan amperage and duct velocity determined in a stack test to maintain a minimum ninety-six and three tenths percent (96.3%) overall (capture and destruction) control of the volatile organic compound (VOC).

#### **D.1.10 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.116b]**

The two (2) 42,000 gallon blown coating storage tanks, two (2) 250,000 gallon bulk asphalt flux storage tanks, and one (1) 100,000 gallon asphalt blend storage tank shall comply with the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.116b, Subpart Kb). 40 CFR Part 60.116b paragraphs (a) and (b) require the Permittee to maintain accessible records showing the dimension of each storage vessel and an analysis showing the capacity of the storage vessels.

#### **D.1.11 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

### **Compliance Determination Requirements**

#### **D.1.12 Testing Requirements [NSPS Subpart UU] [326 IAC 12]**

- (a) Part Pursuant to 326 IAC 2-1-3 (Construction and Operating Permit Requirements) and 326 IAC 12 (New Source Performance Standards) compliance tests for the shingle machine shall be performed for opacity, PM and PM<sub>10</sub> within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. These tests shall be performed according to 326 IAC 3-6 (Source Sampling Procedures) using the methods specified in the rule or as approved by the Commissioner. The Office of Air Management (OAM) shall be notified of the actual test date at least two (2) weeks prior to the date, a test protocol shall be submitted to the OAM, Compliance Data Section, 35 days in advance of the test, and all test reports must be received by the OAM within 45 days of completion of the testing, pursuant to that rule.
- (b) Pursuant to 326 IAC 2-1-3 (Construction and Operating Permit Requirements) and 326 IAC 12 (New Source Performance Standards) compliance tests for the blow still shall be performed for PM and PM<sub>10</sub> within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up. The testing shall be performed when a catalyst is utilized. These tests shall be performed according to 326 IAC 3-6 (Source Sampling Procedures) using the methods specified in the rule or as approved by the Commissioner. The Office of Air Management (OAM) shall be notified of the actual test date at least two (2) weeks prior to the date, a test protocol shall be submitted to the OAM, Compliance Data Section, 35 days in advance of the test, and all test reports must be received by the OAM within 45 days of completion of the testing, pursuant to that rule.
- (c) These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facilities are in compliance.

**D.1.13 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]**

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- (a) No later than 180 days after initial start-up, the Permittee shall perform PM and PM<sub>10</sub> testing of any two (2) of six (6) limestone filler silos, exhaust through V1 - V6, one (1) of the two (2) sand silos, exhausting through V8 and V9, the cold filler hopper, the thermal oxidizer exhaust Stack #S1 utilizing Methods 5 or 17 (40 CFR 60, Appendix A) for PM and Methods 201 or 201A and 202 (40 CFR 51, Appendix M) for PM<sub>10</sub>, or other methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM<sub>10</sub> includes filterable and condensable PM<sub>10</sub>. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facilities are in compliance.
- (b) No later than 180 days after initial start-up, the Permittee shall perform VOC testing of the thermal oxidizer exhausting through Stack #S1 to determine the capture and destruction efficiencies for overall VOC control utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facilities are in compliance.
- (c) The Permittee is not required to test the storage tanks by this permit. However, IDEM may require compliance testing when necessary to determine if these facilities are in compliance. If testing is required by IDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.1.14 Particulate Matter (PM)**

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Pursuant to NSPS Subpart UU, the thermal oxidizer and the baghouse for PM control shall be in operation at all times when the asphalt blowing processes and shingle machine are in operation.

**D.1.15 Visible Emissions Notations**

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- (a) Daily visible emission notations of the thermal oxidizer stack exhaust S#1 and baghouse exhausts V1 through V10 shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

#### D.1.16 Parametric Monitoring (NSPS Subpart UU)

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the asphalt shingle manufacturing processes, at least once per day when the asphalt shingle manufacturing processes are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 0.5 and 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

#### D.1.17 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags controlling the asphalt shingle manufacturing operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

#### D.1.18 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

#### D.1.19 Thermal Oxidizer Monitoring (NSPS Subpart UU)

- (a) The Permittee shall continuously monitor and record the temperature in the combustion zone of the thermal oxidizer, known as TO-1. The monitoring instrument shall have an accuracy of  $\pm 10$  degrees Celsius over its range.
- (b) The Permittee shall record the exhaust temperature of the thermal oxidizer, at least once daily when the asphalt shingle manufacturing processes are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the exhaust temperature shall be maintained at a minimum operating temperature of 1,200 degrees Fahrenheit or a temperature range determined by the latest stack test to maintain at least 96.3

percent destruction of VOC captured. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the temperature reading is outside of the specified temperature or range of temperatures for any one reading.

## **Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

### **D.1.20 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.8, the Permittee shall maintain records at the facility of the materials used that contain any VOCs. The records shall be complete and sufficient to establish compliance with the VOC usage limit pursuant to 326 IAC 8-1-6.
- (b) To document compliance with Condition D.1.15, the Permittee shall maintain records of daily visible emission notations of the thermal oxidizer stack exhaust S#1 and baghouse exhausts V1 through V10.
- (c) To document compliance with Condition D.1.16, the Permittee shall maintain the following:
  - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
    - (A) Inlet and outlet differential static pressure; and
    - (B) Cleaning cycle: frequency and differential pressure.
  - (2) Documentation of all response steps implemented, per event.
  - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
  - (4) Quality Assurance/Quality Control (QA/QC) procedures.
  - (5) Operator standard operating procedures (SOP).
  - (6) Manufacturer's specifications or its equivalent.
  - (7) Equipment "troubleshooting" contingency plan.
  - (8) Documentation of the dates vents are redirected.
- (d) To document compliance with Condition D.1.17, the Permittee shall maintain records of the results of the inspections required under Condition D.1.17 and the dates the vents are redirected.
- (e) To document compliance with Condition D.1.19, the Permittee shall
  - (1) Maintain daily records of the exhaust temperature of the thermal oxidizer, and
  - (2) Continuously record the temperature in the combustion zone of the thermal oxidizer, known as TO-1.

- (f) The Permittee shall maintain accessible records showing the dimension of the storage tank and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tanks.
- (g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.



## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

- (k) One (1) natural gas-fired boiler, known as BO-1, to be installed by December 1999, rated at 12.6 million British thermal units per hour, exhausted through Stack #S6.
- (l) One (1) natural gas-fired boiler backup, known as BO-2, rated at 10.5 million British thermal units per hour, exhausted through Stack #S2.
- (m) One (1) natural gas-fired coating heater, known as CH-1, to be installed in 1999, rated at 7.5 million British thermal units per hour, exhausted through Stack #S3, process capacity: 250 gallons of coating asphalt per minute (15,000 gallons per hour).
- (n) One (1) natural gas-fired hot oil heater, known as HO-1, to be installed in 1999, rated at 6.0 million British thermal units per hour, exhausted through Stack #S5.
- (o) One (1) natural gas-fired hot oil heater backup, known as HO-2, rated at 10.5 million British thermal units per hour, exhausted through Stack #S2.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

### Construction Conditions

#### General Construction Conditions

- D.2.1 This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

#### Effective Date of the Permit

- D.2.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.
- D.2.3 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

#### Operation Conditions

#### Emission Limitations and Standards [326 IAC 2-8-4(1)]

##### D.2.4 Particulate Matter Limitation [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, particulate emissions from 12.6 million British thermal units per hour boiler (BO-1) shall in no case exceed 0.564 pounds of particulate matter per million British thermal units heat input. The particulate matter emission limitation is calculated with the following equation pursuant to 326 IAC 6-2-4. The particulate matter (PM) emissions shall be limited to:

$$Pt = 1.09/Q^{0.26}$$

where, Q = the total source maximum operating capacity in million British thermal units per hour.

Building Materials Manufacturing Corporation  
Michigan City, Indiana  
Permit Reviewer: FPC/MES

First Administrative Amendment 091-17228  
Modified by: AY/EVP

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**D.2.5 Particulate Matter Limitation [326 IAC 6-2-4]**

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Pursuant to 326 IAC 6-2-4, particulate emissions from the 10.5 million British thermal units per hour boiler (BO-2) shall in no case exceed 0.48 pounds of particulate matter per million British thermal units heat input. The particulate matter emission limitation is calculated with the following equation pursuant to 326 IAC 6-2-4. The particulate matter (PM) emissions shall be limited to:

$$Pt = 1.09/Q^{0.26}$$

where, Q = the total source maximum operating capacity in million British thermal units per hour.

**Compliance Determination Requirements**

**D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

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The Permittee is not required to test these facilities by this permit. However, IDEM may require compliance testing when necessary to determine if these facilities are in compliance. If testing is required by IDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.2.7 Record Keeping Requirements**

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The Permittee shall maintain monthly records of the amount and type of fuel burned in the 12.6 million British thermal units per hour boiler, BO-1, and the 10.5 million British thermal units per hour boiler, BO-2, pursuant to 40 CFR 60 Subpart Dc.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR MANAGEMENT  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Building Materials Manufacturing Corporation  
Source Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
Mailing Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
FESOP No.: F 091-10904-00051

**This certification shall be included when submitting monitoring, testing reports/results  
or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR MANAGEMENT  
COMPLIANCE DATA SECTION  
P.O. Box 6015  
100 North Senate Avenue  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Building Materials Manufacturing Corporation  
Source Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
Mailing Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
FESOP No.: F 091-10904-00051

**This form consists of 2 pages**

**Page 1 of 2**

Check either No. 1 or No.2

- 9** 1. This is an emergency as defined in 326 IAC 2-7-1(12)  
The Permittee must notify the Office of Air Management (OAM), within four **(4)** business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and  
The Permittee must submit notice in writing or by facsimile within two **(2)** days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
- 9** 2. This is a deviation, reportable per 326 IAC 2-8-4(3)(C)  
The Permittee must submit notice in writing within ten **(10)** calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency/Deviation:

Describe the cause of the Emergency/Deviation:

If any of the following are not applicable, mark N/A

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Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR MANAGEMENT  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Building Materials Manufacturing Corporation  
Source Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
Mailing Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
FESOP No.: F 091-10904-00051

**This certification shall be included when submitting monitoring, testing reports/results  
or other documents as required by this permit.**

Report period

Beginning: \_\_\_\_\_

Ending: \_\_\_\_\_

Boiler Affected

Alternate Fuel

Days burning alternate fuel

From

To

*(can omit boiler affected if only one gas boiler at this plant)*

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Building Materials Manufacturing Corporation  
Michigan City, Indiana  
Permit Reviewer: FPC/MES

First Administrative Amendment 091-17228  
Modified by: AY/EVP

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR MANAGEMENT  
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: Building Materials Manufacturing Corporation  
Source Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
Mailing Address: 505 North Roeske Avenue, Michigan City, Indiana 46360  
FESOP No.: F 091-10904-00051

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

**9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.**

**9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.**

<b>Compliance Monitoring Requirement</b> (eg. Permit Condition D.1.3)	<b>Number of Deviations</b>	<b>Date of each Deviation</b>

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.



**Appendix A: Emission Calculations**  
**Tank VOC Emissions - Maximum PTE**

**Company Name: Building Materials Manufacturing Corporation**  
**Address City IN Zip: 500 North Roeske Avenue, Michigan City, Indiana 46360**  
**FESOP: F091-10904-00051**  
**Administrative Amendment: F091-17228-00051**  
**Reviewer: Adeel Yousuf / EVP**  
**Date: 06/18/03**

Tank	Product	Losses (Tons per Year)				Total VOC
ID	Stored	Breathing	Working	Standing	Withdrawal	Tons/yr
<b>Vertical Fixed Roof Tanks:</b>						
TK-1120	Asphalt	0.00	0.86	--	--	0.86
Total VOC		0.00	0.86	0.00	0.00	0.86

Note: Storage tank emission estimated using USEPA's Tanks 4.09 software program and are based on the estimated maximum annual throughput.

The blending tank (TK-1120) will vent asphalt fumes when the tank is being filled (working loss). The tank is heated and maintained at a constant temperature; therefore the breathing loss is essentially zero. The fumes from the tank are "hard piped" into the existing storage tank vent system that directs the collected fumes into an existing thermal oxidizer. Condensed asphalt fumes are similar to a residual fuel oil in characteristic and BTU value. Therefore, in order to estimate the emission increase that would result from the burning of these fumes in the thermal oxidizer, it is appropriate to use the products of combustion emission factors for No. 6 fuel oil.

Potential Throughput  
kgals/year      S = Weight % Sulfur  

2.0

  
Asphalt condensate per year:      3.454

Emission Factor in lb/kgal	Pollutant				
	PM**	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	3.4	314	55.0	1.13	5.0
	*see below	(157S)			
Potential Emission in tons/yr	0.006	0.542	0.095	0.002	0.009

**\*Particulate Matter emission factor for #6 fuel oil is 9.19(s) + 3.22 lb/kgal**

**\*\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.5 lb/kgal.**

#### Methodology

1 gallon of #6 Fuel oil has a heating value of 150,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.139 MMBtu

Emission Factors are from AP 42 Tables 1.3-1, 1.3-2 and 1.3-3 (SCC 1-03-004-02/03, 1-02-004-02/03, and 1-03-004-04)

(AP-42 Supplement E 9/98)

Emission (tons/yr) = Throughput (kgals/year) x Emission Factor (lb/kgal)/2,000 lb/ton

No data are available for HAPs emissions calculations